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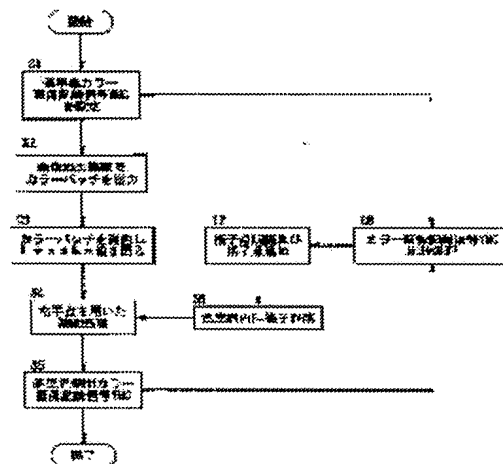
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(54) HIERARCHICAL OPTIMIZING METHOD FOR COLOR CORRECTION TABLE

(57)Abstract:

PURPOSE: To set values of grating points so that a color reproduction error becomes minimum in an area where an image signal used as sample data is present and to make the values of grating points continuous in the area where the image signal is present and an area where the image signal is absent by repeatedly adjusting grating points and adding a new grating point in the color reproduction area of an image output device and leaving grating points not in the color reproduction area at initial set values as they are.

CONSTITUTION: For a color converting method which minimizes the color reproduction error between an input image and an output image, grating points corresponding to the respective items of a table representing a color converting process are provided in a color space. In the color reproduction area of the image output device, the grating points are adjusted and a new grating point is added repeatedly; and the grating points not in the color reproduction area of the image output device are left at the initially set values as they are. Further, grating points in an area where image signals whose number is less than a threshold are present and an area where the distribution of image signals has partiality among areas sectioned with the grating points in the color space are so set that no abrupt variation is generated as compared with other grating points.



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